

CLAIMS

I claim:

1. A sprinkler comprising:

a shunt of a cylinder type with an axial hole at the center. The middle section of shunt is provided with a radial notch connected vertically to above-mentioned axial hole. The base of shunt is equipped with a pipe connector to link existing aqueduct connector. Both sides of this shunt are vertically equipped with two diversion holes. The bases of both diversion holes are vertically connected to radial notch;

a water-control shaft of a round rod shape with a rotatable radial notch of shunt. The middle section of the rod is provided with a concave main notch with its width larger than the radius of the rod, as well as opposite water panel. Both of the radial sides of main notch are equipped with two secondary notches. The radial positions of secondary notches are staggered for disalignment, of which opposite internal edges of secondary notches are connected to main notch. Along with the rotation of water-control shaft, the radial side of secondary notch B1 will be firstly connected to diversion hole A1. Then the radial side of secondary notch B2 will be connected to diversion hole A2;

a switch provided at one side of water-control shaft and exposed to the surface of shunt. The end-user can hold it to rotate water-control shaft;

a detergent storage pipe provided at the top of shunt and composed of an internal pipe and a pipe case. The base of the pipe case is attached to the top of shunt while the top of pipe case is provided with a reducing linkage member for the connection of preset sprinkler head fittings. The inlet of detergent is reserved at the top of one side of pipe case and capable of providing a hood to

avoid the leakage of detergent W1. The internal pipe is provided at the center of pipe case, The base of pipe orifice is connected to the axial hole of shunt while the top of pipe orifice runs upwards until the top of linkage member of pipe case so as to form an outflow tube.

wherein said detergent dispensing mechanism comprises a circular detergent tank can be shaped, the base of the detergent tank is connected to the diversion holes A1, A2 of shunt.

2. The sprinkler as defined in claim 1, wherein said internal pipe and pipe case are constructed separately, so as to form a concave notch hole within the linkage member of pipe case. The top center of shunt is provided with a horizontal notch at the outlet of axial hole. Thus, the top end and base of the internal pipe is capable of inserting separately into above-mentioned notch hole and horizontal notch.

3. The sprinkler as defined in claim 1, wherein said convex ring edge is formed at one side of water-control shaft far away from the switch, so as to provide a notch edge at the opposite side of shunt's radial notch and insert spacer by the convex ring edge. A screw hole is provided at one side of water-control shaft so as to place a punching hole at the center of switch. A screw bolt is applied to cross through the punching hole of the switch, and then fastened to the screw hole of water-control shaft. At the same time, it is capable of assembling and positioning the switch and water-control shaft.

4. The sprinkler as defined in claim 1, wherein said pipe case of the detergent storage pipe is constructed of transparent materials, so as to enable the end-users to observe clearly internal residual detergent W1.